



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No. : 09/920,394
Applicant : ISIS Pharmaceuticals, Inc.
Filed: : August 1, 2001
TC/A.U. : 1635
Examiner : James Schultz
Customer No. : 36441
Docket No. : ISPH-0589
Confirm'n No. : 4398
Title : ANTISENSE MODULATION OF ACYL COENZYME
A CHOLESTEROL ACYLTRANSFERASE-1
EXPRESSION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Declaration under 37 CFR §1.132

Sir:

I, Susan Freier, a citizen of the United States, residing at 2946 Renault Street, San Diego, CA 92122, do declare and state that:

1. I am an employee of ISIS PHARMACEUTICALS, INC., the assignee of the above-identified patent application. I hold the degree of Ph.D. in Biophysical Chemistry from the University of California, Berkeley in 1976, working in the

laboratory of Ignacio Tinoco, Jr. Subsequent to obtaining my PH.D. I was a post-doctoral fellow in the laboratory of Irving Klotz at Northwestern University (1976-79) and in the laboratory of Douglas Turner at the University of Rochester (1979-85). I have been employed by the assignee of this application for over 13 years as a Research Scientist and Research Director in the Department of Antisense Research. For the past several years, I have directed the Department of Antisense lead identification where we have measured antisense activity of over 150,000 antisense oligonucleotides designed for over 2000 different genes.

2. I make this declaration as an expert in the art of antisense technology in response to the Examiner's rejection of the claims of this invention as being made obvious under 35 USC § 103(a), by a combination of prior art including Taylor et al. 1999 *Drug Disc. Today*, 4(12):562-567 (Taylor). Specifically, I make this declaration to rebut the unsupported statement by Taylor at page 565, col. 1, lines 3-11, that screening 3-6 oligomers per target is sufficient to find one that inhibits any gene with 66-95% efficiency.

3. Taylor is a review article that makes what I believe to be unsupported assertions about the ease of identifying sites on any gene which may be used as target sites by antisense oligonucleotides that, upon binding to the target, can inhibit the gene expression. The determination of target sites on a gene that permit one to identify suitable, highly inhibitory antisense oligonucleotides for

that gene is not a process which can be anticipated to be easy or simple, merely upon the identification of the gene sequence of the target gene. The results of any screening for a target sequence that permits development of an antisense oligonucleotide that can inhibit gene expression at a high level is never an "expected" result.

4. Applicants' assignee is a company that specializes in antisense technology and uses the latest in bioinformatics programs to identify active sites on selected genes. As indicated by the Exhibits A through D below, one may investigate in excess of 70 or more target sequences of a gene without having success in identifying a target site permitting inhibition at high levels. This is true for a number of genes. While it is possible occasionally to identify a target that permits high level inhibition using less than 25 screening sequences, it is never possible to predict reliably *before* the screen is performed, what genes will require the use of greater than 70 screening oligonucleotides and what genes will require the use of less than 25 screening nucleotides.

5. For example, Exhibits A and B show a screen performed on a random gene, human tyrosine kinase, non-receptor, 1 in which 80 screening oligonucleotides were employed in a bioinformatics program. Exhibit A identifies the screening oligonucleotides by ISIS number. Exhibit B plots target mRNA level (relative to untreated control cells) vs. ISIS number of the oligonucleotide. The first two bars on the left are negative control oligonucleotides that are not complementary to this or any other known target. The

others are antisense to the target gene. Most oligonucleotides were inactive, i.e., they had no effect on levels of target mRNA. A few reduced targets to 50-60% control, and thus inhibited about 40-50%. None inhibited more than 50%.

6. For example, Exhibits C and D show a screen performed on a random gene, rat urate anion exchanger 1, in which 80 screening oligonucleotides were employed in a bioinformatics program. Exhibit C identifies the screening oligonucleotides by ISIS No. Exhibit D plots target mRNA level (relative to untreated control cells) vs. ISIS number of the oligonucleotide. Most oligonucleotides were inactive, i.e., they had no effect on levels of target mRNA. A few reduced targets to 60% control, and thus inhibited by about 40%. None inhibited more than 40%.

7. This evidence demonstrates that one skilled in antisense oligonucleotide screening cannot *a priori* expect ease of target identification simply by knowing antisense methodologies and the gene sequence of the entire target. In my opinion, Taylor's statements simply are unduly optimistic and are neither accurate nor capable of being supported by the facts of oligonucleotide screening.

8. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by

fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 1-5-04By: Susan Freier

Susan Freier



Exhibit A
Application No. 09/920,394
Declaration of Susan Freier

Date: 11/10/2003
Page: 40
Equipment #: 1
Target: Human lymphoblastoid, non-malignant, 1
Equipment: Ciper Perista
Method: 228
Page: 40
Cell Line: T-4
Cont. # Change: 0-0-0
Cont. Uniform MOE: 100-0-0
Prime Probe Set: RTD-35A

| Well | Info No. | % Control Target | Range | Mean Range | Origin Chemistry | Species Origin Hls |
|------|----------|------------------|-------|------------|------------------|--------------------|
| B03 | 16078 | 97.32 | 22.85 | 16.42 | MOE-Gapmer | Human |
| F08 | 16078 | 109.89 | 15.97 | 7.99 | MOE-Gapmer | Human |
| F03 | 300751 | 92.53 | 7.57 | 3.76 | MOE-Gapmer | Human |
| D09 | 300752 | 112.86 | 82.12 | 31.08 | MOE-Gapmer | Human |
| F08 | 300753 | 102.62 | 56.72 | 28.28 | MOE-Gapmer | Human |
| D09 | 300754 | 134.62 | 33.51 | 16.76 | MOE-Gapmer | Human |
| E08 | 300755 | 86.95 | 55.64 | 27.82 | MOE-Gapmer | Human |
| E03 | 300756 | 81.86 | 12.31 | 6.18 | MOE-Gapmer | Human |
| D08 | 300757 | 126.36 | 23.00 | 11.60 | MOE-Gapmer | Human |
| A09 | 300758 | 86.97 | 33.01 | 16.50 | MOE-Gapmer | Human |
| D08 | 300759 | 58.50 | 7.54 | 3.77 | MOE-Gapmer | Human |
| H06 | 300760 | 87.75 | 42.50 | 21.25 | MOE-Gapmer | Human |
| D03 | 300761 | 80.83 | 4.01 | 2.00 | MOE-Gapmer | Human |
| A08 | 300762 | 142.14 | 63.64 | 28.97 | MOE-Gapmer | Human |
| H15 | 300764 | 105.97 | 47.75 | 23.88 | MOE-Gapmer | Human |
| G04 | 300765 | 112.55 | 18.42 | 9.21 | MOE-Gapmer | Human |
| E08 | 300766 | 66.14 | 20.83 | 10.32 | MOE-Gapmer | Human |
| G03 | 300768 | 60.07 | 15.15 | 7.57 | MOE-Gapmer | Human |
| D08 | 300769 | 26.32 | 3.34 | 1.67 | MOE-Gapmer | Human |
| F02 | 300771 | 75.96 | 14.20 | 7.10 | MOE-Gapmer | Human |
| H07 | 300772 | 66.92 | 8.37 | 4.18 | MOE-Gapmer | Human |
| E03 | 300773 | 62.10 | 20.38 | 10.19 | MOE-Gapmer | Human |
| D02 | 300775 | 69.59 | 32.38 | 16.19 | MOE-Gapmer | Human |
| G08 | 300776 | 80.88 | 29.24 | 14.62 | MOE-Gapmer | Human |
| D03 | 300777 | 114.18 | 15.79 | 7.89 | MOE-Gapmer | Human |
| H01 | 300780 | 94.30 | 3.90 | 1.95 | MOE-Gapmer | Human |
| D07 | 300782 | 80.04 | 54.02 | 27.01 | MOE-Gapmer | Human |
| D04 | 300783 | 59.64 | 29.88 | 14.94 | MOE-Gapmer | Human |
| F01 | 300784 | 90.83 | 18.88 | 9.49 | MOE-Gapmer | Human |
| B04 | 300785 | 76.07 | 18.01 | 9.01 | MOE-Gapmer | Human |
| A04 | 300786 | 68.32 | 20.82 | 11.81 | MOE-Gapmer | Human |
| E10 | 300787 | 114.28 | 82.22 | 31.11 | MOE-Gapmer | Human |
| C01 | 300788 | 66.74 | 5.81 | 2.90 | MOE-Gapmer | Human |
| H02 | 300789 | 78.73 | 48.02 | 24.01 | MOE-Gapmer | Human |
| B07 | 300790 | 76.38 | 21.30 | 10.67 | MOE-Gapmer | Human |
| A07 | 300791 | 90.38 | 8.90 | 4.45 | MOE-Gapmer | Human |
| H10 | 300792 | 100.49 | 20.20 | 10.10 | MOE-Gapmer | Human |
| H09 | 300793 | 94.33 | 11.85 | 5.92 | MOE-Gapmer | Human |
| D09 | 300794 | 78.80 | 27.85 | 13.93 | MOE-Gapmer | Human |
| F09 | 300795 | 103.60 | 13.08 | 6.54 | MOE-Gapmer | Human |
| D08 | 300796 | 88.89 | 24.28 | 12.14 | MOE-Gapmer | Human |
| E09 | 300797 | 88.32 | 20.93 | 10.48 | MOE-Gapmer | Human |
| D10 | 300798 | 102.21 | 8.62 | 4.31 | MOE-Gapmer | Human |
| D09 | 300799 | 76.11 | 28.89 | 14.49 | MOE-Gapmer | Human |
| F06 | 300800 | 98.58 | 25.52 | 12.76 | MOE-Gapmer | Human |
| B10 | 300801 | 90.48 | 28.89 | 14.45 | MOE-Gapmer | Human |
| C03 | 300802 | 103.59 | 27.87 | 13.94 | MOE-Gapmer | Human |
| F08 | 300803 | 128.05 | 48.84 | 24.42 | MOE-Gapmer | Human |
| E05 | 300806 | 81.28 | 49.63 | 24.78 | MOE-Gapmer | Human |
| A03 | 300807 | 72.44 | 27.47 | 13.74 | MOE-Gapmer | Human |
| H02 | 300808 | 96.52 | 50.18 | 25.09 | MOE-Gapmer | Human |
| G02 | 300809 | 81.32 | 4.67 | 2.33 | MOE-Gapmer | Human |
| C02 | 300810 | 82.30 | 11.94 | 5.98 | MOE-Gapmer | Human |
| B02 | 300811 | 80.82 | 3.28 | 1.64 | MOE-Gapmer | Human |
| D07 | 300812 | 87.03 | 2.29 | 1.14 | MOE-Gapmer | Human |
| A02 | 300813 | 74.48 | 29.78 | 14.89 | MOE-Gapmer | Human |
| F04 | 300814 | 78.24 | 14.70 | 7.35 | MOE-Gapmer | Human |
| D10 | 300815 | 88.39 | 80.21 | 40.11 | MOE-Gapmer | Human |
| F07 | 300816 | 82.86 | 19.50 | 9.75 | MOE-Gapmer | Human |
| E04 | 300817 | 87.81 | 17.43 | 8.72 | MOE-Gapmer | Human |
| D04 | 300818 | 89.86 | 13.88 | 6.94 | MOE-Gapmer | Human |
| E07 | 300819 | 77.60 | 23.88 | 11.94 | MOE-Gapmer | Human |
| D01 | 300820 | 95.70 | 19.05 | 9.52 | MOE-Gapmer | Human |
| B10 | 300821 | 73.47 | 8.60 | 4.30 | MOE-Gapmer | Human |
| A01 | 300822 | 86.68 | 25.11 | 12.57 | MOE-Gapmer | Human |
| G03 | 300823 | 109.74 | 31.02 | 15.51 | MOE-Gapmer | Human |
| E01 | 300824 | 127.98 | 11.88 | 5.93 | MOE-Gapmer | Human |
| B09 | 300825 | 158.31 | 44.97 | 22.49 | MOE-Gapmer | Human |
| A10 | 300826 | 106.43 | 30.94 | 15.47 | MOE-Gapmer | Human |
| D07 | 300827 | 158.05 | 22.71 | 11.35 | MOE-Gapmer | Human |
| E09 | 300828 | 72.08 | 26.78 | 13.39 | MOE-Gapmer | Human |
| B09 | 300829 | 85.74 | 4.81 | 2.40 | MOE-Gapmer | Human/Mouse |
| D08 | 300767 | 83.04 | 8.57 | 4.28 | MOE-Gapmer | Human/Mouse |
| D09 | 300770 | 138.05 | 76.63 | 38.30 | MOE-Gapmer | Human/Mouse |
| D08 | 300774 | 53.31 | 17.78 | 8.87 | MOE-Gapmer | Human/Mouse |
| H04 | 300778 | 87.18 | 24.82 | 12.41 | MOE-Gapmer | Human/Mouse |
| G04 | 300779 | 107.81 | 38.64 | 19.32 | MOE-Gapmer | Human/Mouse |
| D01 | 300781 | 118.69 | 71.82 | 35.90 | MOE-Gapmer | Human/Mouse |
| A09 | 300804 | 88.80 | 20.31 | 10.16 | MOE-Gapmer | Human/Mouse |
| B10 | 300805 | 82.14 | 18.74 | 9.37 | MOE-Gapmer | Human/Mouse |

Comments

OTG in this well called GC

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Exhibit B

Application No. 09/920,394

Declaration of Susan Freier

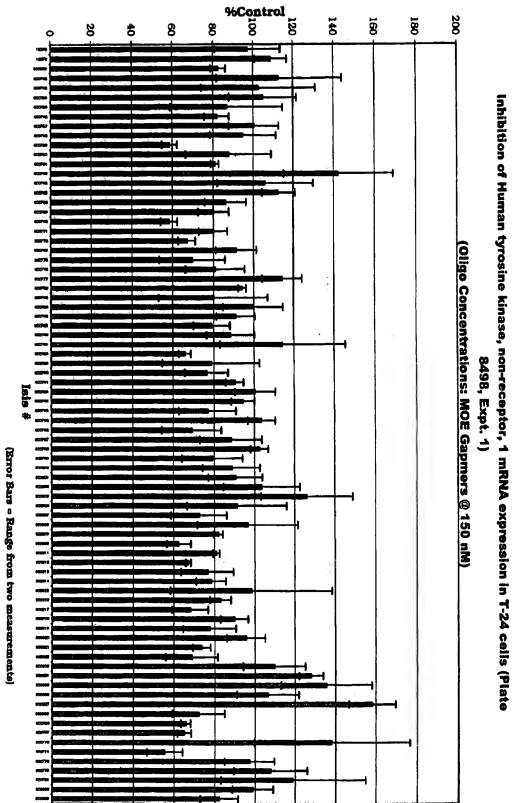


Exhibit C
Application No. 09/920,394
Declaration of Susan Freier

Date: 08/13/2009
Page: 41
Project: Rat-rod action testing
Equipment: Joe Rand
Headline: 0258
Page: 41
Cell Line: R14-4
Cons: F Design 0144
Cons: Uniform MOE Gaps: 200-148
Pilot Probe Set: RTD1042

Comments

| WFL | ids No | % Control Target | Range | Mean Range | Cligo Chemistry | Species Cligo Hb | Fluor Amplon |
|-----|--------|------------------|-------|------------|-----------------|------------------|--------------|
| B63 | 18078 | 68.68 | 5.34 | 2.97 | MOE-Gapmer | 0.00 | 0 |
| F68 | 18078 | 126.67 | 20.41 | 10.20 | MOE-Gapmer | 0.00 | 0 |
| G64 | 214518 | 111.60 | 8.11 | 4.05 | MOE-Gapmer | Mouse/Rat | 0 |
| A62 | 214517 | 85.65 | 39.22 | 19.81 | MOE-Gapmer | Mouse/Rat | 0 |
| A64 | 214527 | 81.51 | 34.86 | 17.43 | MOE-Gapmer | Mouse/Rat | 1 |
| D60 | 214539 | 84.18 | 8.10 | 4.05 | MOE-Gapmer | Mouse/Rat | 1 |
| S68 | 214533 | 81.83 | 30.87 | 1.83 | MOE-Gapmer | Mouse/Rat | 1 |
| D62 | 214534 | 93.48 | 9.78 | 4.88 | MOE-Gapmer | Mouse/Rat | 1 |
| F63 | 214535 | 106.62 | 21.67 | 10.84 | MOE-Gapmer | Mouse/Rat | 1 |
| D61 | 214536 | 97.79 | 7.24 | 3.67 | MOE-Gapmer | Mouse/Rat | 1 |
| F65 | 214543 | 85.58 | 8.83 | 4.42 | MOE-Gapmer | Mouse/Rat | 1 |
| A63 | 214544 | 121.37 | 76.89 | 38.50 | MOE-Gapmer | Mouse/Rat | 1 |
| H62 | 214545 | 117.89 | 39.86 | 19.84 | MOE-Gapmer | Mouse/Rat | 1 |
| D61 | 214546 | 81.62 | 4.62 | 2.31 | MOE-Gapmer | Mouse/Rat | 1 |
| E62 | 214550 | 105.45 | 5.85 | 4.33 | MOE-Gapmer | Mouse/Rat | 0 |
| D68 | 214560 | 112.84 | 5.59 | 2.64 | MOE-Gapmer | Mouse/Rat | 0 |
| H67 | 214569 | 98.87 | 14.28 | 7.14 | MOE-Gapmer | Mouse/Rat | 0 |
| F66 | 214570 | 100.67 | 0.18 | 0.09 | MOE-Gapmer | Mouse/Rat | 0 |
| A57 | 214571 | 83.46 | 0.04 | 0.02 | MOE-Gapmer | Mouse/Rat | 0 |
| G67 | 214572 | 102.84 | 36.97 | 18.48 | MOE-Gapmer | Mouse/Rat | 0 |
| F67 | 214573 | 144.06 | 35.86 | 18.48 | MOE-Gapmer | Mouse/Rat | 0 |
| D69 | 214574 | 105.51 | 1.86 | 0.94 | MOE-Gapmer | Mouse/Rat | 0 |
| H64 | 214575 | 130.18 | 18.43 | 9.72 | MOE-Gapmer | Mouse/Rat | 0 |
| E66 | 214576 | 114.71 | 38.81 | 18.41 | MOE-Gapmer | Mouse/Rat | 0 |
| E67 | 214577 | 80.65 | 0.93 | 0.41 | MOE-Gapmer | Mouse/Rat | 0 |
| D10 | 214578 | 100.05 | 18.87 | 9.78 | MOE-Gapmer | Mouse/Rat | 0 |
| D67 | 214579 | 89.54 | 0.06 | 0.03 | MOE-Gapmer | Mouse/Rat | 0 |
| C67 | 214580 | 85.68 | 7.88 | 3.95 | MOE-Gapmer | Mouse/Rat | 0 |
| G61 | 214581 | 110.42 | 5.78 | 2.80 | MOE-Gapmer | Mouse/Rat | 0 |
| H67 | 214582 | 107.80 | 28.02 | 14.51 | MOE-Gapmer | Mouse/Rat | 0 |
| F64 | 214583 | 81.84 | 14.74 | 29.37 | MOE-Gapmer | Mouse/Rat | 0 |
| A67 | 214584 | 88.26 | 23.84 | 11.80 | MOE-Gapmer | Mouse/Rat | 0 |
| F64 | 214518 | 114.08 | 4.18 | 2.09 | MOE-Gapmer | Rat | 0 |
| H61 | 214518 | 132.24 | 24.10 | 12.05 | MOE-Gapmer | Rat | 0 |
| B10 | 214520 | 102.24 | 18.70 | 9.35 | MOE-Gapmer | Rat | 0 |
| D64 | 214521 | 104.78 | 8.29 | 4.15 | MOE-Gapmer | Rat | 0 |
| H65 | 214522 | 89.38 | 22.84 | 11.42 | MOE-Gapmer | Rat | 0 |
| B04 | 214523 | 88.09 | 4.00 | 2.00 | MOE-Gapmer | Rat | 0 |
| G68 | 214524 | 70.36 | 8.00 | 4.00 | MOE-Gapmer | Rat | 1 |
| F65 | 214525 | 87.23 | 13.98 | 6.94 | MOE-Gapmer | Rat | 1 |
| E69 | 214526 | 87.83 | 27.80 | 13.88 | MOE-Gapmer | Rat | 1 |
| F66 | 214529 | 82.92 | 15.04 | 7.52 | MOE-Gapmer | Rat | 1 |
| C66 | 214530 | 86.72 | 8.78 | 3.98 | MOE-Gapmer | Rat | 1 |
| C62 | 214531 | 76.21 | 21.18 | 10.59 | MOE-Gapmer | Rat | 1 |
| E61 | 214532 | 81.64 | 8.65 | 3.33 | MOE-Gapmer | Rat | 1 |
| E62 | 214533 | 70.14 | 4.60 | 2.30 | MOE-Gapmer | Rat | 1 |
| D63 | 214538 | 92.05 | 7.88 | 3.94 | MOE-Gapmer | Rat | 1 |
| A68 | 214539 | 87.79 | 14.15 | 7.07 | MOE-Gapmer | Rat | 1 |
| C62 | 214540 | 84.03 | 5.33 | 2.68 | MOE-Gapmer | Rat | 1 |
| H62 | 214541 | 100.60 | 6.83 | 3.42 | MOE-Gapmer | Rat | 1 |
| B69 | 214542 | 100.89 | 10.11 | 5.06 | MOE-Gapmer | Rat | 1 |
| E63 | 214547 | 80.88 | 8.58 | 4.29 | MOE-Gapmer | Rat | 1 |
| D62 | 214648 | 92.48 | 15.09 | 7.55 | MOE-Gapmer | Rat | 1 |
| E62 | 214549 | 86.50 | 8.15 | 3.08 | MOE-Gapmer | Rat | 1 |
| B61 | 214560 | 115.16 | 22.54 | 11.27 | MOE-Gapmer | Rat | 1 |
| A61 | 214561 | 125.40 | 50.81 | 25.81 | MOE-Gapmer | Rat | 1 |
| A61 | 214562 | 122.24 | 45.50 | 22.86 | MOE-Gapmer | Rat | 0 |
| F62 | 214563 | 86.30 | 26.18 | 13.09 | MOE-Gapmer | Rat | 0 |
| B68 | 214564 | 154.10 | 28.78 | 28.39 | MOE-Gapmer | Rat | 0 |
| H68 | 214565 | 140.47 | 4.89 | 2.44 | MOE-Gapmer | Rat | 0 |
| C65 | 214566 | 82.21 | 13.61 | 6.80 | MOE-Gapmer | Rat | 0 |
| G66 | 214567 | 104.24 | 24.71 | 12.35 | MOE-Gapmer | Rat | 0 |
| E68 | 214568 | 74.21 | 7.24 | 3.62 | MOE-Gapmer | Rat | 0 |
| B65 | 214569 | 75.72 | 7.15 | 3.58 | MOE-Gapmer | Rat | 0 |
| D62 | 214602 | 88.60 | 8.11 | 4.06 | MOE-Gapmer | Rat | 0 |
| H10 | 214563 | 78.30 | 17.33 | 8.66 | MOE-Gapmer | Rat | 0 |
| C68 | 214564 | 80.88 | 10.37 | 5.18 | MOE-Gapmer | Rat | 0 |
| B69 | 214565 | 106.42 | 9.48 | 4.74 | MOE-Gapmer | Rat | 0 |
| G10 | 214568 | 109.74 | 18.74 | 9.37 | MOE-Gapmer | Rat | 0 |
| C68 | 214567 | 84.46 | 28.58 | 13.28 | MOE-Gapmer | Rat | 0 |
| C62 | 214568 | 138.12 | 31.50 | 15.88 | MOE-Gapmer | Rat | 0 |
| C10 | 214565 | 118.81 | 25.80 | 12.85 | MOE-Gapmer | Rat | 0 |
| D64 | 214568 | 117.51 | 8.15 | 3.08 | MOE-Gapmer | Rat | 0 |
| A10 | 214567 | 84.85 | 3.89 | 1.94 | MOE-Gapmer | Rat | 0 |
| H69 | 214568 | 80.33 | 8.84 | 4.42 | MOE-Gapmer | Rat | 0 |
| D64 | 214569 | 84.47 | 12.54 | 6.27 | MOE-Gapmer | Rat | 0 |
| E68 | 214569 | 84.43 | 3.22 | 0.11 | MOE-Gapmer | Rat | 0 |
| G91 | 214581 | 83.56 | 23.78 | 11.90 | MOE-Gapmer | Rat | 0 |
| D63 | 214582 | 80.43 | 4.11 | 2.05 | MOE-Gapmer | Rat | 0 |
| H63 | 214583 | 134.34 | 24.81 | 12.48 | MOE-Gapmer | Rat | 0 |

Comments

Cligo in this well failed QC

Cligo in this well failed QC

Cligo in this well failed QC

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Declaration of Susan Freier

5

| 15S # | %Control |
|-------|----------|
| 15S1 | 95 |
| 15S2 | 115 |
| 15S3 | 110 |
| 15S4 | 90 |
| 15S5 | 95 |
| 15S6 | 105 |
| 15S7 | 100 |
| 15S8 | 105 |
| 15S9 | 100 |
| 15S10 | 105 |
| 15S11 | 185 |
| 15S12 | 115 |
| 15S13 | 110 |
| 15S14 | 105 |
| 15S15 | 100 |
| 15S16 | 105 |
| 15S17 | 100 |
| 15S18 | 105 |
| 15S19 | 100 |
| 15S20 | 105 |
| 15S21 | 115 |
| 15S22 | 110 |
| 15S23 | 105 |
| 15S24 | 100 |
| 15S25 | 105 |
| 15S26 | 100 |
| 15S27 | 105 |
| 15S28 | 100 |
| 15S29 | 105 |
| 15S30 | 100 |
| 15S31 | 115 |
| 15S32 | 110 |
| 15S33 | 105 |
| 15S34 | 100 |
| 15S35 | 105 |
| 15S36 | 100 |
| 15S37 | 105 |
| 15S38 | 100 |
| 15S39 | 105 |
| 15S40 | 100 |

(Error Bars = Range from two measurements)